

# Ye Xu

## List of Publications by Year in descending order

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130  
papers

13,981  
citations

36271

51  
h-index

20343

116  
g-index

137  
all docs

137  
docs citations

137  
times ranked

13543  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | A High-Performance Nonfused Wide-Bandgap Acceptor for Versatile Photovoltaic Applications. <i>Advanced Materials</i> , 2022, 34, e2108090.  | 11.1 | 71        |
| 2  | Mapping the energy level alignment at donor/acceptor interfaces in non-fullerene organic solar cells. <i>Nature Communications</i> , 2022, 13, 2046.                                  | 5.8  | 41        |
| 3  | Design of ultranarrow-bandgap acceptors for efficient organic photovoltaic cells and highly sensitive organic photodetectors. <i>Journal of Energy Chemistry</i> , 2022, 72, 388-394. | 7.1  | 10        |
| 4  | Thermal stability and protective properties of phenylphosphonic acid on Cu(111). <i>Applied Surface Science</i> , 2022, 600, 154036.  | 3.1  | 1         |
| 5  | Organic photovoltaic cells with high efficiencies for both indoor and outdoor applications. <i>Materials Chemistry Frontiers</i> , 2021, 5, 893-900.                                  | 3.2  | 32        |
| 6  | Recent progress in reducing voltage loss in organic photovoltaic cells. <i>Materials Chemistry Frontiers</i> , 2021, 5, 709-722.  | 3.2  | 41        |
| 7  | Design of ultra-high luminescent polymers for organic photovoltaic cells with low energy loss. <i>Chemical Communications</i> , 2021, 57, 9132-9135.                                  | 2.2  | 12        |
| 8  | Quadrupole Moment Induced Morphology Control Via a Highly Volatile Small Molecule in Efficient Organic Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2010535.         | 7.8  | 55        |
| 9  | Molecular design revitalizes the low-cost PTV-polymer for highly efficient organic solar cells. <i>National Science Review</i> , 2021, 8, nwab031.                                    | 4.6  | 70        |
| 10 | Theoretical analysis of the adsorption of phosphoric acid and model phosphate monoesters on CeO <sub>2</sub> (111). <i>Surface Science</i> , 2021, 705, 121776.                       | 0.8  | 6         |
| 11 | A New Conjugated Polymer that Enables the Integration of Photovoltaic and Light-Emitting Functions in One Device. <i>Advanced Materials</i> , 2021, 33, e2101090.                     | 11.1 | 129       |
| 12 | Simultaneous Improvement of Efficiency and Stability of Organic Photovoltaic Cells by using a Cross-Linkable Fullerene Derivative. <i>Small</i> , 2021, 17, e2101133.                 | 5.2  | 34        |
| 13 | Rational Anode Engineering Enables Progresses for Different Types of Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2100492.                                       | 10.2 | 108       |
| 14 | Elucidating the Mechanism of Ambient-Temperature Aldol Condensation of Acetaldehyde on Ceria. <i>ACS Catalysis</i> , 2021, 11, 8621-8634.   | 5.5  | 14        |
| 15 | Impact of Electrostatic Interaction on Bulk Morphology in Efficient Donor-Acceptor Photovoltaic Blends. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15988-15994.     | 7.2  | 60        |
| 16 | Impact of Electrostatic Interaction on Bulk Morphology in Efficient Donor-Acceptor Photovoltaic Blends. <i>Angewandte Chemie</i> , 2021, 133, 16124-16130.                            | 1.6  | 11        |
| 17 | Oxygen electrochemistry in Li <sub>2</sub> O batteries probed by in situ surface-enhanced Raman spectroscopy. <i>SusMat</i> , 2021, 1, 345-358.                                       | 7.8  | 31        |
| 18 | CoCrFeNi High-Entropy Alloy as an Enhanced Hydrogen Evolution Catalyst in an Acidic Solution. <i>Journal of Physical Chemistry C</i> , 2021, 125, 17008-17018.                        | 1.5  | 25        |

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|----|--|------|-----------|
| 19 | Squaraine organic crystals with strong dipole effect toward stable lithium-organic batteries. <i>Energy Storage Materials</i> , 2021, 41, 240-247.   | 9.5  | 16        |
| 20 | Thermoplastic Elastomer Tunes Phase Structure and Promotes Stretchability of High-Efficiency Organic Solar Cells. <i>Advanced Materials</i> , 2021, 33, e2106732.  | 11.1 | 101       |
| 21 | The effect of aggregation behavior on photovoltaic performances in benzodithiophene-thiazolothiazole-based wide band-gap conjugated polymers with side chain position changes. <i>Polymer Chemistry</i> , 2020, 11, 1629-1636.                           | 1.9  | 30        |
| 22 | Strain Effect in Palladium Nanostructures as Nanozymes. <i>Nano Letters</i> , 2020, 20, 272-277.   | 4.5  | 85        |
| 23 | Adsorption structure of adenine on cerium oxide. <i>Applied Surface Science</i> , 2020, 530, 147257.   | 3.1  | 8         |
| 24 | Quantifying $V_{oc}$ loss induced by alkyl pendants of acceptors in organic solar cells. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12568-12577.   | 2.7  | 14        |
| 25 | Catalytic Encounters at the Molecular Level: Gabor A. Somorjai Award Symposium for Creative Research in Catalysis in Honor of Professor Manos Mavrikakis. <i>Topics in Catalysis</i> , 2020, 63, 617-617.  | 1.3  | 0         |
| 26 | Hydrogen Adsorption on Ordered and Disordered Pt-Ni Alloys. <i>Topics in Catalysis</i> , 2020, 63, 714-727.  | 1.3  | 4         |
| 27 | Low Temperature Aggregation Transitions in N3 and Y6 Acceptors Enable Double-Annealing Method That Yields Hierarchical Morphology and Superior Efficiency in Nonfullerene Organic Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2005011. | 7.8  | 66        |
| 28 | Reduced Nonradiative Recombination Energy Loss Enabled Efficient Polymer Solar Cells via Tuning Alkyl Chain Positions on Pendent Benzene Units of Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 24184-24191.                       | 4.0  | 7         |
| 29 | Efficient charge generation at low energy losses in organic solar cells: a key issues review. <i>Reports on Progress in Physics</i> , 2020, 83, 082601.  | 8.1  | 43        |
| 30 | Efficient Exciton Dissociation Enabled by the End Group Modification in Non-Fullerene Acceptors. <i>Journal of Physical Chemistry C</i> , 2020, 124, 7691-7698.  | 1.5  | 18        |
| 31 | Tuning the Hybridization of Local Exciton and Charge-Transfer States in Highly Efficient Organic Photovoltaic Cells. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9004-9010.   | 7.2  | 144       |
| 32 | Recent Progress in Chlorinated Organic Photovoltaic Materials. <i>Accounts of Chemical Research</i> , 2020, 53, 822-832.   | 7.6  | 198       |
| 33 | Single-Junction Organic Photovoltaic Cells with Approaching 18% Efficiency. <i>Advanced Materials</i> , 2020, 32, e1908205.  | 11.1 | 1,407     |
| 34 | Tuning the Hybridization of Local Exciton and Charge-Transfer States in Highly Efficient Organic Photovoltaic Cells. <i>Angewandte Chemie</i> , 2020, 132, 9089-9095.  | 1.6  | 24        |
| 35 | Eco-Compatible Solvent-Processed Organic Photovoltaic Cells with Over 16% Efficiency. <i>Advanced Materials</i> , 2019, 31, e1903441.  | 11.1 | 445       |
| 36 | Wide-gap non-fullerene acceptor enabling high-performance organic photovoltaic cells for indoor applications. <i>Nature Energy</i> , 2019, 4, 768-775.   | 19.8 | 407       |

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|----|---|------|-----------|
| 37 | Reduced Nonradiative Energy Loss Caused by Aggregation of Nonfullerene Acceptor in Organic Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1901823.  | 10.2 | 72        |
| 38 | Investigating the Trade-Off between Device Performance and Energy Loss in Nonfullerene Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 29124-29131.                          | 4.0  | 24        |
| 39 | Bioalcohol production from acidogenic products via a two-step process: A case study of butyric acid to butanol. <i>Applied Energy</i> , 2019, 252, 113482.  | 5.1  | 47        |
| 40 | p-Doped Conducting Polyelectrolyte as an Anode Interlayer Enables High Efficiency for 1 cm <sup>2</sup> Printed Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 20205-20213. | 4.0  | 28        |
| 41 | 14.7% Efficiency Organic Photovoltaic Cells Enabled by Active Materials with a Large Electrostatic Potential Difference. <i>Journal of the American Chemical Society</i> , 2019, 141, 7743-7750.            | 6.6  | 379       |
| 42 | CO <sub>2</sub> electrochemical reduction at thiolate-modified bulk Au electrodes. <i>Catalysis Science and Technology</i> , 2019, 9, 2689-2701.  | 2.1  | 22        |
| 43 | Enhanced $\pi$ - $\pi$ Interactions of Nonfullerene Acceptors by Volatilizable Solid Additives in Efficient Polymer Solar Cells. <i>Advanced Materials</i> , 2019, 31, e1900477.                            | 11.1 | 99        |
| 44 | Efficiency enhancements of a restricted stochastic search algorithm for locating local and global minima. <i>Chemical Physics Letters</i> , 2019, 725, 1-7.   | 1.2  | 0         |
| 45 | Significant Effect of Fluorination on Simultaneously Improving Work Function and Transparency of Anode Interlayer for Organic Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1803826.             | 10.2 | 21        |
| 46 | Reaction pathways for HCN on transition metal surfaces. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 5274-5284.   | 1.3  | 4         |
| 47 | Achieving Over 15% Efficiency in Organic Photovoltaic Cells via Copolymer Design. <i>Advanced Materials</i> , 2019, 31, e1808356.   | 11.1 | 388       |
| 48 | Defect engineering activating (Boosting) zinc storage capacity of MoS <sub>2</sub> . <i>Energy Storage Materials</i> , 2019, 16, 527-534.   | 9.5  | 199       |
| 49 | Recent Advances in Fullerene-free Polymer Solar Cells: Materials and Devices. <i>Chinese Journal of Chemistry</i> , 2019, 37, 207-215.  | 2.6  | 46        |
| 50 | Coupling of Acetaldehyde to Crotonaldehyde on CeO <sub>2</sub> (111): Bifunctional Mechanism and Role of Oxygen Vacancies. <i>Journal of Physical Chemistry C</i> , 2019, 123, 8273-8286.                   | 1.5  | 23        |
| 51 | Theoretical Investigation of the Effects of Metal Cations on Oxygen Reduction Reaction in Non-Aqueous Li-Air Batteries. <i>ECS Meeting Abstracts</i> , 2019, , .  | 0.0  | 0         |
| 52 | An experimental and theoretical study of adenine adsorption on Au(111). <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4688-4698.   | 1.3  | 13        |
| 53 | Theoretical investigation of dephosphorylation of phosphate monoesters on CeO <sub>2</sub> (111). <i>Catalysis Today</i> , 2018, 312, 141-148.  | 2.2  | 16        |
| 54 | Multi-component non-fullerene acceptors with tunable bandgap structures for efficient organic solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23644-23649.                                  | 5.2  | 47        |

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|----|--|------|-----------|
| 55 | Enhancing the Photovoltaic Performance of Nonfullerene Acceptors via Conjugated Rotatable End Groups. <i>Advanced Energy Materials</i> , 2018, 8, 1802131.   | 10.2 | 24        |
| 56 | Printable MoO <sub>x</sub> Anode Interlayers for Organic Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1801718.  | 11.1 | 71        |
| 57 | Mechanistic Insights into Oxygen Reduction Reactions in Non-Aqueous Metal-Air Batteries. <i>ECS Meeting Abstracts</i> , 2018, , .  | 0.0  | 0         |
| 58 | DFT-Based Method for More Accurate Adsorption Energies: An Adaptive Sum of Energies from RPBE and vdW Density Functionals. <i>Journal of Physical Chemistry C</i> , 2017, 121, 4937-4945.  | 1.5  | 80        |
| 59 | Mechanistic origin of low polarization in aprotic Na <sup>+</sup> O <sub>2</sub> batteries. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 12375-12383.  | 1.3  | 24        |
| 60 | Estimation of electric field effects on the adsorption of molecular superoxide species on Au based on density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 32626-32635.   | 1.3  | 8         |
| 61 | Covalent versus localized nature of $d$ electrons in ceria: Resonant angle-resolved photoemission spectroscopy and density functional theory. <i>Physical Review B</i> , 2017, 95, .   | 1.1  | 13        |
| 62 | Adsorption of transition metal adatoms on h-BN/Rh(111): Implications for nanocluster self-assembly. <i>Catalysis Today</i> , 2017, 280, 220-231.   | 2.2  | 15        |
| 63 | Simulated Temperature Programmed Desorption of Acetaldehyde on CeO <sub>2</sub> (111): Evidence for the Role of Oxygen Vacancy and Hydrogen Transfer. <i>Topics in Catalysis</i> , 2017, 60, 446-458.  | 1.3  | 15        |
| 64 | Theoretical Investigation of Oxygen- and Bromine-Functionalized Model Carbon Structures for Li-Redox Activity. <i>ECS Meeting Abstracts</i> , 2017, , .  | 0.0  | 0         |
| 65 | Hydrogenation at Metal-Ligand Interfaces in CO <sub>2</sub> Electrochemical Reduction. <i>ECS Meeting Abstracts</i> , 2017, , .  | 0.0  | 0         |
| 66 | Mechanistic Insights into Oxygen Reduction and Evolution Reactions in Non-Aqueous Metal-Air Batteries. <i>ECS Meeting Abstracts</i> , 2017, , .  | 0.0  | 0         |
| 67 | Interaction of Thiol Ligands with Gold in Electrocatalytic CO <sub>2</sub> Reduction. <i>ECS Meeting Abstracts</i> , 2017, , .   | 0.0  | 0         |
| 68 | CO Adsorption on Au Nanoparticles Grown on Hexagonal Boron Nitride/Rh(111). <i>Journal of Physical Chemistry C</i> , 2016, 120, 10909-10918.   | 1.5  | 27        |
| 69 | Amorphous Li <sub>2</sub> O <sub>2</sub> : Chemical Synthesis and Electrochemical Properties. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10717-10721.  | 7.2  | 135       |
| 70 | Amorphous Li <sub>2</sub> O <sub>2</sub> : Chemical Synthesis and Electrochemical Properties. <i>Angewandte Chemie</i> , 2016, 128, 10875-10879.   | 1.6  | 37        |
| 71 | Spectroscopic Identification of the Au <sup>+</sup> C Bond Formation upon Electroreduction of an Aryl Diazonium Salt on Gold. <i>Langmuir</i> , 2016, 32, 11514-11519.   | 1.6  | 14        |
| 72 | Potential-Dependent Generation of O <sub>2</sub> <sup>•-</sup> and LiO <sub>2</sub> and Their Critical Roles in O <sub>2</sub> Reduction to Li <sub>2</sub> O <sub>2</sub> in Aprotic Li <sup>+</sup> O <sub>2</sub> Batteries. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3690-3698. | 1.5  | 149       |

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|----|--|-----|-----------|
| 73 | Role of Superoxide Anion in the Oxygen Reduction Reaction in Non-Aqueous Electrolytes with a Proton or Lithium Source. ECS Meeting Abstracts, 2016, , .  | 0.0 | 0         |
| 74 | Theoretical Investigation of the Oxygen Reduction Reaction in Non-Aqueous Electrolytes. ECS Meeting Abstracts, 2016, , .   | 0.0 | 0         |
| 75 | Enhanced Electrocatalytic CO <sub>2</sub> Reduction on Thiol-Functionalized Gold. ECS Meeting Abstracts, 2016, , .   | 0.0 | 0         |
| 76 | Tuning the Selectivity of CO <sub>2</sub> Electrochemical Reduction Toward Hydrocarbon with Ligand Modified Metal Electrocatalyst. ECS Meeting Abstracts, 2016, , .  | 0.0 | 0         |
| 77 | Direct Detection of the Superoxide Anion as a Stable Intermediate in the Electroreduction of Oxygen in a Non-Aqueous Electrolyte Containing Phenol as a Proton Source. Angewandte Chemie, 2015, 127, 8283-8286.                        | 1.6 | 19        |
| 78 | Direct Detection of the Superoxide Anion as a Stable Intermediate in the Electroreduction of Oxygen in a Non-Aqueous Electrolyte Containing Phenol as a Proton Source. Angewandte Chemie - International Edition, 2015, 54, 8165-8168. | 7.2 | 78        |
| 79 | Reconciling the electronic and geometric corrugations of the hexagonal boron nitride and graphene nanomeshes. Surface Science, 2015, 642, L16-L19.   | 0.8 | 9         |
| 80 | Reactivity and reaction intermediates for acetic acid adsorbed on CeO <sub>2</sub> (1 1 1). Catalysis Today, 2015, 253, 65-76.   | 2.2 | 43        |
| 81 | Reversibility of Noble Metal-Catalyzed Aprotic Li-O <sub>2</sub> Batteries. Nano Letters, 2015, 15, 8084-8090.   | 4.5 | 165       |
| 82 | Unlocking the energy capabilities of micron-sized LiFePO <sub>4</sub> . Nature Communications, 2015, 6, 7898.  | 5.8 | 65        |
| 83 | Pd@Ir Core-Shell Nanocubes: A Type of Highly Efficient and Versatile Peroxidase Mimic. ACS Nano, 2015, 9, 9994-10004.  | 7.3 | 254       |
| 84 | Propane Ammoxidation over Mo@V@Te@Nb@O M1 Phase Investigated by DFT: Elementary Steps of Ammonia Adsorption, Activation and NH Insertion into $\eta^5$ -Allyl Intermediate. Topics in Catalysis, 2014, 57, 1145-1151.                  | 1.3 | 11        |
| 85 | Formation and stability of dense arrays of Au nanoclusters on hexagonal boron nitride/Rh(111). Physical Review B, 2014, 89, .  | 1.1 | 29        |
| 86 | Energetics of Adsorbed CH <sub>2</sub> and CH on Pt(111) by Calorimetry: The Dissociative Adsorption of Diiodomethane. Journal of Physical Chemistry C, 2014, 118, 29310-29321.  | 1.5 | 13        |
| 87 | Catalytically active Au-O(OH) $\mu$ -species stabilized by alkali ions on zeolites and mesoporous oxides. Science, 2014, 346, 1498-1501.   | 6.0 | 544       |
| 88 | Propane ammoxidation over Mo@V@Te@Nb@O M1 phase: Density functional theory study of propane oxidative dehydrogenation steps. Catalysis Today, 2014, 238, 28-34.  | 2.2 | 21        |
| 89 | Identifying Active Functionalities on Few-Layered Graphene Catalysts for Oxidative Dehydrogenation of Isobutane. ChemSusChem, 2014, 7, 483-491.  | 3.6 | 56        |
| 90 | Adsorption Energy of <i>tert</i> -Butyl on Pt(111) by Dissociation of <i>tert</i> -Butyl Iodide: Calorimetry and DFT. Journal of Physical Chemistry C, 2014, 118, 427-438.   | 1.5 | 22        |

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|-----|---|------|-----------|
| 91  | Effects of hydrogen and water on the activity and selectivity of acetic acid hydrogenation on ruthenium. <i>Green Chemistry</i> , 2014, 16, 911-924.  | 4.6  | 49        |
| 92  | Synthesis, Characterization, and Computation of Catalysts at the Center for Atomic-Level Catalyst Design. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20043-20069.                  | 1.5  | 21        |
| 93  | Adsorption and Diffusion of 4d and 5d Transition Metal Adatoms on Graphene/Ru(0001) and the Implications for Cluster Nucleation. <i>Topics in Catalysis</i> , 2014, 57, 69-79.              | 1.3  | 28        |
| 94  | Graphene moiré structure grown on a pseudomorphic metal overlayer supported on Ru(0001). <i>Surface Science</i> , 2013, 611, 67-73.   | 0.8  | 17        |
| 95  | High-throughput screening of monometallic catalysts for aqueous-phase hydrogenation of biomass-derived oxygenates. <i>Applied Catalysis B: Environmental</i> , 2013, 140-141, 98-107.       | 10.8 | 78        |
| 96  | Adsorption and diffusion of the Rh and Au adatom on graphene moiré/Ru(0001). <i>Journal of Chemical Physics</i> , 2013, 138, 184710.  | 1.2  | 22        |
| 97  | A combined HAADF STEM and density functional theory study of tantalum and niobium locations in the Mo-V-Te-Ta(Nb)-O M1 phases. <i>Catalysis Communications</i> , 2012, 29, 68-72.           | 1.6  | 19        |
| 98  | Oxygen Vacancy-Assisted Coupling and Enolization of Acetaldehyde on CeO <sub>2</sub> (111). <i>Journal of the American Chemical Society</i> , 2012, 134, 18034-18045.                       | 6.6  | 97        |
| 99  | Trends in the Catalytic Activity of Transition Metals for the Oxygen Reduction Reaction by Lithium. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 891-895.                        | 2.1  | 75        |
| 100 | Decomposition of Furan on Pd(111). <i>Topics in Catalysis</i> , 2012, 55, 290-299.  | 1.3  | 13        |
| 101 | Exploring the structure and chemical activity of 2-D gold islands on graphene moiré/Ru(0001). <i>Faraday Discussions</i> , 2011, 152, 267.  | 1.6  | 37        |
| 102 | Oxygen Reduction by Lithium on Model Carbon and Oxidized Carbon Structures. <i>Journal of the Electrochemical Society</i> , 2011, 158, A1177.   | 1.3  | 66        |
| 103 | Propane Ammoxidation Over the Mo-V-Te-Nb-O M1 Phase: Reactivity of Surface Cations in Hydrogen Abstraction Steps. <i>Topics in Catalysis</i> , 2011, 54, 605-613.                           | 1.3  | 24        |
| 104 | Effect of Pd surface structure on the activation of methyl acetate. <i>Catalysis Today</i> , 2011, 165, 96-105.   | 2.2  | 17        |
| 105 | Aqueous-Phase Hydrogenation of Acetic Acid over Transition Metal Catalysts. <i>ChemCatChem</i> , 2010, 2, 1420-1424.  | 1.8  | 123       |
| 106 | Activation of methyl acetate on Pd(111). <i>Surface Science</i> , 2010, 604, 887-892.   | 0.8  | 23        |
| 107 | Partial and complete reduction of O <sub>2</sub> by hydrogen on transition metal surfaces. <i>Surface Science</i> , 2010, 604, 1565-1575.   | 0.8  | 189       |
| 108 | Adsorption of Propane, Isopropyl, and Hydrogen on Cluster Models of the M1 Phase of Mo-V-Te-Nb-O Mixed Metal Oxide Catalyst. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4544-4549. | 1.5  | 28        |



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|-----|---|-----|-----------|
| 109 | O <sub>2</sub> reduction by lithium on Au(111) and Pt(111). Journal of Chemical Physics, 2010, 133, 024703.   | 1.2 | 88        |
| 110 | Temperature evolution of structure and bonding of formic acid and formate on fully oxidized and highly reduced CeO <sub>2</sub> (111). Physical Chemistry Chemical Physics, 2009, 11, 11171.                            | 1.3 | 61        |
| 111 | Thermodynamics of Environment-Dependent Oxygen Chemisorption on Pt(111). Journal of Physical Chemistry C, 2008, 112, 9559-9572.   | 1.5 | 173       |
| 112 | A first-principles investigation of the effect of Pt cluster size on CO and NO oxidation intermediates and energetics. Physical Chemistry Chemical Physics, 2008, 10, 6009.   | 1.3 | 45        |
| 113 | Bimetallic and Ternary Alloys for Improved Oxygen Reduction Catalysis. Topics in Catalysis, 2007, 46, 276-284.  | 1.3 | 202       |
| 114 | The Effect of Coadsorbed Oxygen on the Adsorption and Diffusion of Potassium on Rh(110): A First-Principles Study. Journal of Physical Chemistry C, 2007, 111, 7446-7455.   | 1.5 | 12        |
| 115 | Lattice strain effects on CO oxidation on Pt(111). Physical Chemistry Chemical Physics, 2006, 8, 3369.  | 1.3 | 96        |
| 116 | Effect of Particle Size on the Oxidizability of Platinum Clusters. Journal of Physical Chemistry A, 2006, 110, 5839-5846.   | 1.1 | 75        |
| 117 | Thermodynamic Equilibrium Compositions, Structures, and Reaction Energies of Pt <sub>x</sub> O <sub>y</sub> (x= 1-3) Clusters Predicted from First Principles. Journal of Physical Chemistry B, 2006, 110, 16591-16599. | 1.2 | 51        |
| 118 | Theoretical Aspects of Oxide Particle Stability and Chemical Reactivity. , 2006, , 289-309.   |     | 0         |
| 119 | Effect of Subsurface Oxygen on the Reactivity of the Ag(111) Surface. Journal of the American Chemical Society, 2005, 127, 12823-12827.   | 6.6 | 151       |
| 120 | Controlling the Catalytic Activity of Platinum-Monolayer Electrocatalysts for Oxygen Reduction with Different Substrates. Angewandte Chemie - International Edition, 2005, 44, 2132-2135.                               | 7.2 | 1,015     |
| 121 | Atomic and molecular adsorption on Pt(111). Surface Science, 2005, 587, 159-174.  | 0.8 | 247       |
| 122 | On the origin of the catalytic activity of gold nanoparticles for low-temperature CO oxidation. Journal of Catalysis, 2004, 223, 232-235.   | 3.1 | 1,122     |
| 123 | Adsorption and Dissociation of O <sub>2</sub> on Pt-Co and Pt-Fe Alloys. Journal of the American Chemical Society, 2004, 126, 4717-4725.  | 6.6 | 615       |
| 124 | The adsorption and dissociation of O <sub>2</sub> molecular precursors on Cu: the effect of steps. Surface Science, 2003, 538, 219-232.   | 0.8 | 47        |
| 125 | Adsorption and Dissociation of O <sub>2</sub> on Gold Surfaces: A Effect of Steps and Strain. Journal of Physical Chemistry B, 2003, 107, 9298-9307.  | 1.2 | 322       |
| 126 | Adsorption and dissociation of O <sub>2</sub> on Ir(111). Journal of Chemical Physics, 2002, 116, 10846-10853.  | 1.2 | 67        |



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|-----|---|-----|-----------|
| 127 | Universality in Heterogeneous Catalysis. <i>Journal of Catalysis</i> , 2002, 209, 275-278.  | 3.1 | 1,167     |
| 128 | Adsorption and dissociation of O <sub>2</sub> on Cu(): thermochemistry, reaction barrier and the effect of strain. <i>Surface Science</i> , 2001, 494, 131-144. | 0.8 | 175       |
| 129 | Recent Developments in the Electrocatalysis of the O <sub>2</sub> Reduction Reaction. , 0, , 271-315.   |     | 10        |
| 130 | Squaraine Organic Crystals with Strong Dipole Effect Toward Stable Lithium-Organic Batteries. <i>SSRN Electronic Journal</i> , 0, , .                           | 0.4 | 0         |